



MONTANA NATURAL HERITAGE PROGRAM

1515 East Sixth Avenue
Helena, Montana 59620
(406) 444-3009

August 31, 1992

Mrs. Margaret Wallace
P.O. Box 126
Drummond, MT 59832

Dear Mrs. Wallace:

Thank you very much for the hospitality you provided Steve Chadde and I during our recent vegetation survey of your beautiful ranch. It was a real pleasure to meet you and to visit with you.

Steve and I also enjoyed the company and assistance of Dale Clute during our survey. Please pass on our appreciation to him.

I have enclosed a list of the vegetation types Steve and I observed on your ranch. We found 28 distinct types, which is a quite high level of diversity. The global and state ranks given in the table relate to the rarity of each type. These values range from 1 (very rare) to 5 (very common). For example, the ponderosa pine/bitterbrush type (ranked G5 S2?) is very common globally but is moderately rare in Montana (to the best of our knowledge).

Thanks once again for your hospitality!

Sincerely,

Robert L. DeVelice, Ph.D.
Plant Community Ecologist

CC: Brian Kahn

BIODIVERSITY SIGNIFICANCE OF VEGETATION TYPES
ON THE WALLACE RANCH, MONTANA

report to:

Montana Field Office
The Nature Conservancy
P.O. Box 258, Helena, MT 59624

prepared by:

Robert L. DeVelice
Montana Natural Heritage Program
1515 E. 6th Ave., Helena, MT 59620

and

Steve Chadde
Montana Natural Heritage Program and
USDA Forest Service
P.O. Box 7669, Missoula, MT 59807

August 27, 1992

Wallace Ranch (ca. 13,000 acres)

owner: Mrs. Wallace (288-3585)

purchased: 1865

contact: Hank Fisher (Msla.)

549-0761

Riparian vegetation has been severely impacted by domestic grazing and other human development throughout Montana. However, remnant sites of relatively pristine riparian vegetation do still occur at scattered locations in the state. These sites are important reservoirs of natural biological diversity and often feature species richness and diversity values much greater than in the surrounding uplands.

At the request of Brian Kahn (Director, Montana Field Office of The Nature Conservancy) we conducted a seven-hour survey of native vegetation on the ca. 13,000 acre Wallace Ranch on August 20, 1992. Basically, the ranch is bounded on the N by I90 and the Clark Fork and on the S by the Flint Creek Range and the Deerlodge National Forest (Figure 1). The ranch includes approximately six miles of Clark Fork frontage and thus a focus of our survey was an examination of the condition of the riparian vegetation types present.

Physiographically, the ranch is highly diverse and includes residual mountain slopes and ridges, rolling uplands, and alluvial landforms. Elevations span from 4030 feet on the Clark Fork to 5800 feet on the lower ridges of the Flint Creek Range. Surficial geology includes mixed alluvial deposits along the Clark Fork and creeks bisecting the ranch, and granitic and limestone parent materials in the uplands.

The predominant riparian native vegetation type of the study area is the Populus trichocarpa/Cornus stolonifera Type (black cottonwood/red-osier dogwood; described by Hansen et al. 1991), upland grasslands feature extensive areas of the Agropyron spicatum-Poa sandbergii and Festuca idahoensis-Agropyron spicatum types (bluebunch wheatgrass-Sandberg bluegrass and Idaho fescue-bluebunch wheatgrass, respectively; Mueggler and Stewart 1980), and upland forests were predominantly the Pseudotsuga menziesii/Symphoricarpos albus Type (Douglas-fir/snowberry; Pfister et al. 1977). These types are all common globally and in Montana, although high quality occurrences of the Populus trichocarpa/Cornus stolonifera Type are rare. The 28 vegetation types observed on the ranch are listed in Table 1.

Unfortunately, the condition of riparian vegetation and most vegetation types on the Wallace Ranch is highly degraded in our view. This degradation appears to be primarily the result of livestock grazing, timber harvest, and prolonged drought. In no case did the element occurrence rank of any community occurrence exceed a C rank. Bunchgrasses such as Agropyron spicatum and Festuca idahoensis are characterized by dead centers surrounded by a fringe of weak current years growth. Weedy exotic (non-native) plants are common to abundant. Primary among these species are Agropyron cristatum (crested wheatgrass), Agrostis alba (redtop; abundant in most riparian areas observed), Centaurea maculosa (spotted knapweed), Cirsium arvense (Canada

thistle), Medicago lupulina (black medic), Phleum pratense (timothy), Poa pratensis (Kentucky bluegrass), Taraxacum officinale (dandelion), and Trifolium pratense (red clover). Additionally, the upland forests are currently being extensively impacted by selection logging operations (removal of pole-sized and larger trees). Moderate to heavy cattle grazing is occurring in the grasslands and along headwater stream channels.

Although the ranch is not pristine, it features definite biodiversity values associated with multi-layered (albeit degraded) riparian vegetation. For example, an active bald eagle nest site is present along the Clark Fork in the NW portion of the ranch (Figure 1). Additionally, a significant elk herd appears to seasonally utilize the ranch's grassland and riparian habitats. However, the biodiversity condition of the ranch vegetation is under significant threat by increasing exotic species cover and soil/vegetation disturbance due to cattle and logging activity.

If The Nature Conservancy were to acquire the Wallace Ranch, it appears to us that its primary value would be for use as trade land. In any case, it would be desirable to protect the eagle nest present from disturbance. Also, many old-growth Populus trichocarpa trees are present along the Clark Fork and consideration might be given to an exotic species control program to improve the condition of these old-growth stands. However, the probability of such a control program succeeding would be low since the dominant undergrowth species (Agrostis alba) has an extensive rhizome system and is very resistant to high levels of utilization and to control efforts (Hansen et al. 1991). Improvement of the upland grasslands would also be difficult given current conditions and the low-vigor of native bunch-grasses.

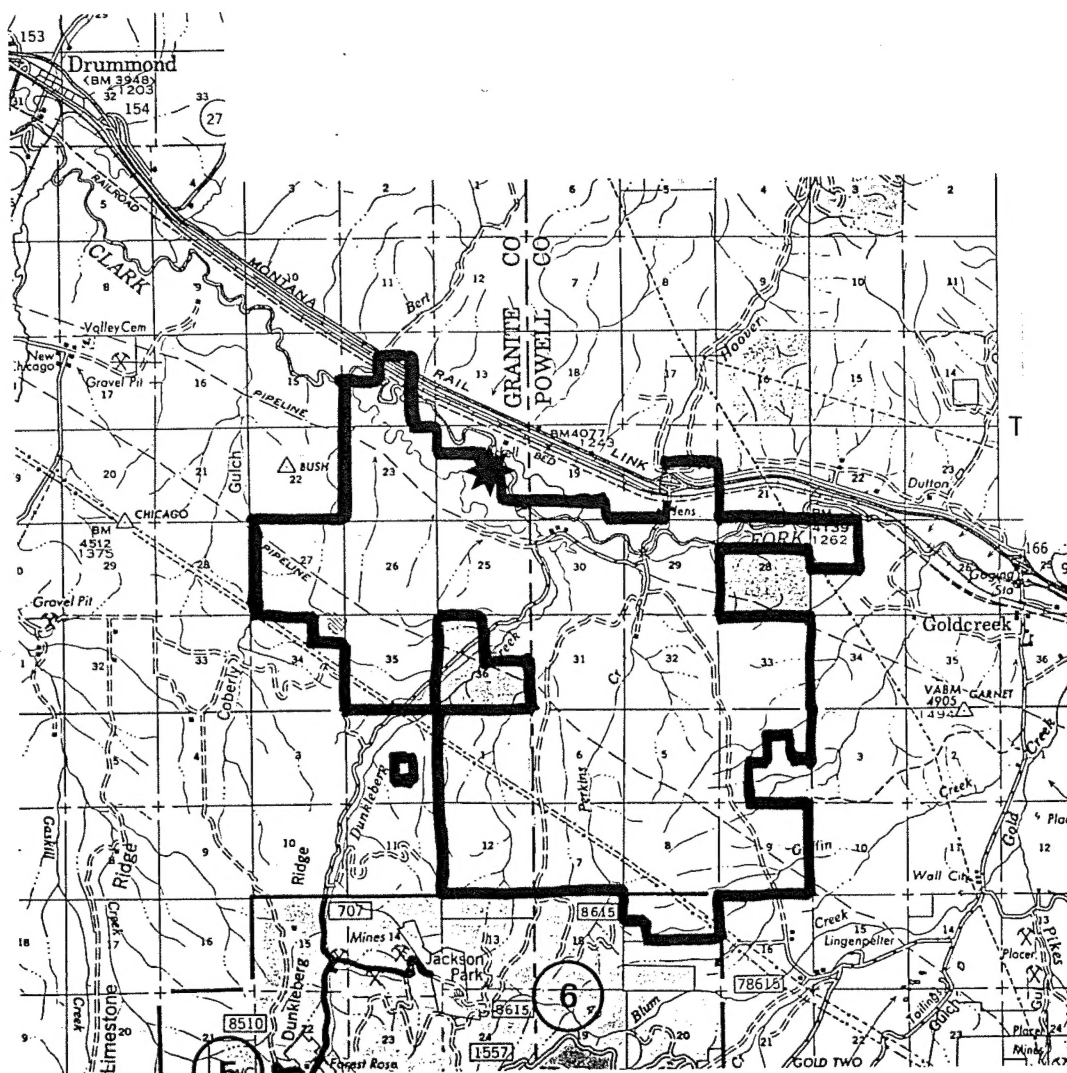


Figure 1. The Wallace Ranch, MT (map scale: 0.5" = 1 mile). The thick black line delimits the ranch boundary. The star along the northern boundary of the ranch indicates the location of the active bald eagle nest mentioned in the text. We were informed of this nest location by Dale Clute (a Wallace Ranch employee) and visited the site with him.

Table 1. Vegetation types observed on the Wallace Ranch and their global and state ranks. Species nomenclature follows Hitchcock and Cronquist (1973).

Riparian Communities (described in Hansen et al. 1991)

Agrostis alba (redtop; G4 S4)

Alnus incana (mountain alder; G4 S4)

Carex nebraskensis (Nebraska sedge; G4 S3)

Carex rostrata (beaked sedge; G5 S5)

Eleocharis pauciflora (few-flowered spike-rush; G4 S4)

Juncus balticus (Baltic Rush; G5 S4)

Juniperus scopulorum/*Cornus stolonifera* (Rocky Mountain juniper/red-osier dogwood; G4 S3)

Phalaris arundinacea (reed canarygrass; G4 S4)

Populus tremuloides/*Cornus stolonifera* (quaking aspen/red-osier dogwood; G3 S3)

Populus trichocarpa/*Cornus stolonifera* (black cottonwood/red-osier dogwood; G4 S4)

Populus trichocarpa/*Poa pratensis* (black cottonwood/Kentucky bluegrass; G5 S4)

Prunus virginiana (common chokecherry; G4 S4)

Salix exigua (sandbar willow; G5 S4)

Salix geyeriana (actually *boothii*)/*Carex rostrata* (Booths willow/beaked sedge; G5 S5)

Salix geyeriana (actually *boothii*)/*Poa pratensis* (Booths willow/Kentucky bluegrass; G5 S4)

Scirpus acutus (hardstem bullrush; G5 S4)

Symphoricarpos occidentalis (actually *albus*) (snowberry; G4 S4)

Typha latifolia (common cattail; G5 S5)

Table 1. Vegetation types observed on the Wallace Ranch and their global and state ranks. Species nomenclature follows Hitchcock and Cronquist (1973).

Riparian Communities (described in Hansen et al. 1991)

- Agrostis alba* (redtop; G4 S4)
- Alnus incana* (mountain alder; G4 S4)
- Carex nebraskensis* (Nebraska sedge; G4 S3)
- Carex rostrata* (beaked sedge; G5 S5)
- Eleocharis pauciflora* (few-flowered spike-rush; G4 S4)
- Juncus balticus* (Baltic Rush; G5 S4)
- Juniperus scopulorum*/*Cornus stolonifera* (Rocky Mountain juniper/red-osier dogwood; G4 S3)
- Phalaris arundinacea* (reed canarygrass; G4 S4)
- Populus tremuloides*/*Cornus stolonifera* (quaking aspen/red-osier dogwood; G3 S3)
- Populus trichocarpa*/*Cornus stolonifera* (black cottonwood/red-osier dogwood; G4 S4)
- Populus trichocarpa*/*Poa pratensis* (black cottonwood/Kentucky bluegrass; G5 S4)
- Prunus virginiana* (common chokecherry; G4 S4)
- Salix exigua* (sandbar willow; G5 S4)
- Salix geyeriana* (actually *boothii*)/*Carex rostrata* (Booths willow/beaked sedge; G5 S5)
- Salix geyeriana* (actually *boothii*)/*Poa pratensis* (Booths willow/Kentucky bluegrass; G5 S4)
- Scirpus acutus* (hardstem bullrush; G5 S4)
- Symphoricarpos occidentalis* (actually *albus*) (snowberry; G4 S4)
- Typha latifolia* (common cattail; G5 S5)

Table 1. (continued)

Upland Forests (described in Pfister et al. 1977, except where noted)

Pinus ponderosa/*Agropyron spicatum* (ponderosa pine/
bluebunch wheatgrass; G4 S3)

Pinus ponderosa/*Festuca idahoensis* (ponderosa pine/Idaho
fescue; G4 S3)

Pinus ponderosa/*Purshia tridentata* (ponderosa pine/
bitterbrush; G5 S2?)

Populus tremuloides/*Symphoricarpos albus* (quaking aspen/
snowberry; described in Cooper and Pfister 1981; G3 S3)

Pseudotsuga menziesii/*Calamagrostis rubescens* (Douglas-fir/
pinegrass; G5 S5)

Pseudotsuga menziesii/*Linnaea borealis* (Douglas-fir/
twinflower; G4 S4)

Pseudotsuga menziesii/*Symphoricarpos albus* (Douglas-fir/
snowberry; G5 S5)

Upland Shrublands and Grasslands (described in Mueggler and
Stewart 1980)

Agropyron spicatum-*Poa sandbergii* (bluebunch wheatgrass-
Sandbergs bluegrass; G4 S4)

Artemisia cana/*Festuca idahoensis* (silver sagebrush/Idaho
fescue; G4 S4)

Festuca idahoensis-*Agropyron spicatum* (Idaho fescue-
bluebunch wheatgrass; G4 S4)

Table 1. (continued)

Upland Forests (described in Pfister et al. 1977, except where noted)

Pinus ponderosa/*Agropyron spicatum* (ponderosa pine/
bluebunch wheatgrass; G4 S3)

Pinus ponderosa/*Festuca idahoensis* (ponderosa pine/Idaho
fescue; G4 S3)

Pinus ponderosa/*Purshia tridentata* (ponderosa pine/
bitterbrush; G5 S2?)

Populus tremuloides/*Symphoricarpos albus* (quaking aspen/
snowberry; described in Cooper and Pfister 1981; G3 S3)

Pseudotsuga menziesii/*Calamagrostis rubescens* (Douglas-fir/
pinegrass; G5 S5)

Pseudotsuga menziesii/*Linnaea borealis* (Douglas-fir/
twinflor; G4 S4)

Pseudotsuga menziesii/*Symphoricarpos albus* (Douglas-fir/
snowberry; G5 S5)

Upland Shrublands and Grasslands (described in Mueggler and
Stewart 1980)

Agropyron spicatum-*Poa sandbergii* (bluebunch wheatgrass-
Sandbergs bluegrass; G4 S4)

Artemisia cana/*Festuca idahoensis* (silver sagebrush/Idaho
fescue; G4 S4)

Festuca idahoensis-*Agropyron spicatum* (Idaho fescue-
bluebunch wheatgrass; G4 S4)

LITERATURE CITED

Cooper, S. and R. Pfister. 1981. Forest habitat types of the Blackfeet Indian Reservation. Review draft, 5/21/81, for BIA, Wind River Agency, Fort Washakie, WY.

Hansen, P., K. Boggs, R. Pfister, and J. Joy. 1991. Classification and management of riparian and wetland sites in Montana. Draft version 1. Montana Riparian Association, School of Forestry, University of Montana, Missoula, MT. 478 pp.

Hitchcock, C.L. and A. Cronquist. 1973. Flora of the Pacific Northwest. University of Washington Press, Seattle, WA. 730 pp.

Mueggler, W.F. and W.L. Stewart. 1980. Grassland and shrubland habitat types of western Montana. USDA Forest Service General Technical Report INT-66. 154 pp.

Pfister, R.D., B.L. Kovalchik, S.F. Arno, and R.C. Presby. 1977. Forest habitat types of Montana. USDA Forest Service General Technical Report INT-34. 174 pp.

OCULAR PLANT SPECIES DATA

PltIDL 3

PLOT NO. 92RD067 NO. SPECIES — PNC POPTRE / SYMALB

TREES Tot Cv — Mht —
Tal Cv — Med Cv —
Low Cv — Grd Cv — CC

T 1 POPTRE 80
T 2 JUNSL0 3
T 3 — —
T 4 — —
T 5 — —

SHRBS Tot Cv — Mht —
Tal Cv — Med Cv —
Low Cv — Grd Cv — CC

S 1 PRVIR 20
S 2 SYMALB 40
S 3 Ribes spp. 3
S 4 ROSWO0 3
S 5 — —
S 6 — —
S 7 — —
S 8 — —
S 9 — —
S10 — —
S11 — —
S12 — —

GRAM Tot Cv — Mht —
Med Cv — Low Cv —
Grd Cv — CC

G 1 POAPRA 50
G 2 PHLPRA 20
G 3 — —
G 4 — —
G 5 — —
G 6 — —
G 7 — —
G 8 — —
G 9 — —
G10 — —
G11 — —
G12 — —

FRBS Tot Cv — Mht —
Med Cv — Low Cv —
Grd Cv — CC

F 1 — —
F 2 — —
F 3 — —
F 4 — —
F 5 — —
F 6 — —
F 7 — —
F 8 — —
F 9 — —
F10 — —
F11 — —
F12 — —
F13 — —
F14 — —
F15 — —

FERN Tot Cv — Mht — Med Cv —
Low Cv — Grd Cv —
BRYO/LICH Tot Cv —

COMMENTS (EODATA) --> —

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

MANUAL 918 UNITS ☒ ft m
PLOT NO. 92RD067 MO 8 DAY 20 YEAR 92 EOCODE *
EXAMINER(S) R. DeVelice, S. Chadda
PNC POPRE/SYMBOL CT
SITE Wallace Ranch STATE MT COUNTY POWE
PURP T PREC S QUADNAME Dunkleberg Creek QUADCODE 4611351
9N T/11W R/6S/ NW4/4 COMMUNITY SIZE (acres)
PLOT TYPES C PLTRL variable PLOT W SURVEY ANL
PHOTOS None
DIRECTIONS -->

CONSERVATION RANKING

COND Com:
VIAB Com:
DEFN Com:
RANK C Com: weedy, degraded by grazing
MGMT:
PROT:

ENVIRONMENTAL FEATURES

DL B SOIL RPT
SOIL UNIT SOIL TAXON
PM LANDFORM PLOT POS SLP SHAPE ASP
SLOPE % ELEVATION 4520 EROS POTENT EROS TYPE
HORIZON ANGLE (%): N E S W IFSLP IFVAL
SPFE
GROUND COVER: S+ G+ R+ L+ W+ M+ BV+ O = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
Surface Water Ht. Abv. H20 Dist. from H20

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

PltIDL ~~Q~~

TREES Tot Cv Mht
Tal Cv Med Cv
Low Cv Grd Cv | CC

FRBS Tot Cv Mht
Med Cv Low Cv
Grd Cv | CC

T 1		
T 2		
T 3		
T 4		
T 5		

F 1	/	ANTMIG	10
F 2	/	LTINIC	T
F 3	/	POTHIP	T
F 4	/	PARSES	T
F 5	/	SPHCOX	T

SHRBS	Tot Cv	—	MHt	—	CC
	Tal Cv	—	Med Cv	—	
	Low Cv	—	Grd Cv	—	

F 7	PHLAMUS	T
F 8	GAUCOC	T
F 9	ASTEAL	T

S 1	/ARTFRT	T
S 2	/GUTSAR	T
S 3	/	
S 4	/	
S 5	/	
S 6	/	
S 7	/	
S 8	/	
S 9	/	
S10	/	
S11	/	
S12	/	

F11			
F12			
F13			
F14			
F15			

GRAM	Tot Cv <u>60</u>	MHt <u>-</u>	
	Med Cv <u> </u>	Low Cv <u> </u>	
	Grd Cv <u> </u>		CC

G 1	AGRSPRT	40
G 2	POASIE	20
G 3	STILON	1
G 4	KOECHI	1
G 5	AGROAS	1
G 6	ARILON	1
G 7		
G 8		
G 9		
G10		
G11		
G12		

FERN Tot Cv Mht Med Cv
 Low Cv Grd Cv
 BRYO/LICH Tot Cv

COMMENTS (EODATA) --> —

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

MANUAL 91B UNITS ☒ ft ☐ m
PLOT NO. 92R0966 MO 8 DAY 20 YEAR 92 EOCODE *
EXAMINER(S) R. Dellelice S. Chadda
PNC AGPSPT/POASEC CT
SITE Wallace Ranch STATE MT COUNTY GRAN
PURP T PREC S QUADNAME Dunkleburg Creek QUADCODE 4611351
10N T/12N R/35S/SW4S/SW 4/4 COMMUNITY SIZE (acres)
PLOT TYPES C PLTRL variable PLOT W SURVEY ANL
PHOTOS None
DIRECTIONS -->

CONSERVATION RANKING

COND Com:
VIAB Com:
DEFN Com:
RANK C Com: degraded by cattle
MGMT:
PROT:

ENVIRONMENTAL FEATURES

DL 6 SOIL RPT
SOIL UNIT SOIL TAXON
PM LIME LANDFORM RMDC PLOT POS SLMS SLP SHAPE ASP 130
SLOPE % 10 ELEVATION 4560 EROS POTENT EROS TYPE
HORIZON ANGLE (%): N E S W IFSLP IFVAL
SPFE
GROUND COVER: S+ G+ R+ L+ W+ M+ BV+ O = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
Surface Water Ht.Abv.H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

PltIDL 3

PLOT NO. 92R0065 NO. SPECIES — PNC ?

TREES Tot Cv — Mht —
Tal Cv — Med Cv —
Low Cv — Grd Cv — CC

T 1 POPTRI 60
T 2 — —
T 3 — —
T 4 — —
T 5 — —

SHRBS Tot Cv — Mht —
Tal Cv — Med Cv —
Low Cv — Grd Cv — CC

S 1 SALLAS 20
S 2 SYMALB 20
S 3 ROSWOOD 20
S 4 — —
S 5 — —
S 6 — —
S 7 — —
S 8 — —
S 9 — —
S10 — —
S11 — —
S12 — —

GRAM Tot Cv — Mht —
Med Cv — Low Cv —
Grd Cv — CC

G 1 AGKSTD 40
G 2 POAPRA 20
G 3 Carex spp. 20
G 4 — —
G 5 — —
G 6 — —
G 7 — —
G 8 — —
G 9 — —
G10 — —
G11 — —
G12 — —

FRBS Tot Cv — Mht —
Med Cv — Low Cv —
Grd Cv — CC

F 1 MEDLUP 3
F 2 — —
F 3 — —
F 4 — —
F 5 — —
F 6 — —
F 7 — —
F 8 — —
F 9 — —
F10 — —
F11 — —
F12 — —
F13 — —
F14 — —
F15 — —

FERN Tot Cv ① Mht — Med Cv —
Low Cv — Grd Cv —
BRYO/LICH Tot Cv 3

COMMENTS (EODATA) --> —

—
—
—

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

MANUAL 91B UNITS ☒ ft m
PLOT NO. 92RD065 MO 8 DAY 20 YEAR 92 EOCODE *
EXAMINER(S) R.L. DeVelice + S. Chaddle
PNC ? CT POPTRI / CORSTO
SITE Wallace Ranch STATE MT COUNTY GRAN
PURP 1 PREC 5 QUADNAME Dunkellberg Creek QUADCODE 4611351
10N T / 12WR / 24S / SE 4S / NW 4/4 COMMUNITY SIZE (acres)
PLOT TYPES C PLTRL variable PLOT W SURVEY ANL
PHOTOS None
DIRECTIONS -->

CONSERVATION RANKING

COND Com:
VIAB Com:
DEFN Com:
RANK C Com: weedy site
MGMT:
PROT:

ENVIRONMENTAL FEATURES

DL B SOIL RPT
SOIL UNIT SOIL TAXON
PM MSAL LANDFORM ACTE PLOT POS WVTE SLP SHAPE ASP 0
SLOPE % 0 ELEVATION 4060 EROS POTENT EROS TYPE
HORIZON ANGLE (%): N E S W IFSLP IFVAL
SPFE active bald eagle nest located at site
GROUND COVER: S+ G+ R+ L+ W+ M+ BV+ O = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
Surface Water Ht.Abv.H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

PltIDL 3

PLOT NO. 92R0964 NO. SPECIES 1000 PNC 7

COMMENTS (EODATA) --> _____

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92RD064 MO 8 DAY 20 YEAR 92 MANUAL 91B UNITS ✓ft m
EXAMINER(S) R. Develice, S. Chapple EOCODE *
PNC ? CT AGRSTO
SITE Wallace Ranch STATE MT COUNTY POWE
PURP T PREC M QUADNAME Dunkleberg Creek QUADCODE 4611351
10N T/ 11W R/ 30 S/ NE 4S/ NW 4/4 COMMUNITY SIZE (acres)
PLOT TYPES C PLTRL variable PLOT W SURVEY ANL
PHOTOS None
DIRECTIONS -->

CONSERVATION RANKING

COND Com:
VIAB Com:
DEFN Com:
RANK D Com: v. weedy
MGMT:
PROT:

ENVIRONMENTAL FEATURES

DL G SOIL RPT
SOIL UNIT SOIL TAXON
PMIAL LANDFORM ACTE PLOT POS WVTE SLP SHAPE ASP Ø
SLOPE % Ø ELEVATION 4090 EROS POTENT EROS TYPE
HORIZON ANGLE (%): N E S W IFSLP IFVAL
SPFE
GROUND COVER: S+ G+ R+ L+ W+ M+ BV+ O = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
Surface Water Ht. Abv. H20 Dist. from H20

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

surrounded by POPTRE/CORSTO (along small perennial drainages)

PltIDL 3

TREES			Tot Cv	MHt	FRBS			Tot Cv	MHt
			Tal Cv	Med Cv				Med Cv	Low Cv
			Low Cv	Grd Cv				Grd Cv	
			CC					CC	
T 1	/	POPTRE	80		F 1	/	SOLCAN	3	
T 2	/				F 2	/	CIRARU	10	
T 3	/				F 3	/			
T 4	/				F 4	/			
T 5	/				F 5	/			
					F 6	/			
SHRBS			Tot Cv	MHt				Tot Cv	MHt
			Tal Cv	Med Cv				Med Cv	Low Cv
			Low Cv	Grd Cv				Grd Cv	
			CC					CC	
S 1	/	PRUVIR	100		F 7	/			
S 2	/	CORSTO	40		F 8	/			
S 3	/	ROSLWO	10		F 9	/			
S 4	/	SYMALB	3		F10	/			
S 5	/	RUBIDA	10		F11	/			
S 6	/				F12	/			
S 7	/				F13	/			
S 8	/				F14	/			
S 9	/				F15	/			
S10	/					/			
S11	/					/			
S12	/					/			
GRAM			Tot Cv	MHt				Tot Cv	MHt
			Med Cv	Low Cv				Med Cv	Low Cv
			Grd Cv					Grd Cv	
			CC					CC	
G 1	/	AGRSTO	50			/			
G 2	/					/			
G 3	/					/			
G 4	/					/			
G 5	/					/			
G 6	/					/			
G 7	/					/			
G 8	/					/			
G 9	/					/			
G10	/					/			
G11	/					/			
G12	/					/			

COMMENTS (EODATA) --> ~

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92RD063 MO 8 DAY 20 YEAR 92 MANUAL 91B UNITS ✓ ft m
EXAMINER(S) R. Develice, S. Chadala EOCODE *
PNC POPTRE/CORSTO CT
SITE Wallace Ranch STATE MT COUNTY POWE
PURP T PREC M QUADNAME Griffin Creek QUADCODE 4611258
10N T/ 11W R/2 S/ NE 4S/ NE 4/4 COMMUNITY SIZE (acres)
PLOT TYPES C PLTRL variable PLOT W SURVEY AYL
PHOTOS 1 - across plot
DIRECTIONS --> -

CONSERVATION RANKING

COND - Com:
VIAB - Com:
DEFN - Com:
RANK C Com: weedy from domestic grazing
MGMT: -
PROT: -

ENVIRONMENTAL FEATURES

DL B SOIL RPT -
SOIL UNIT - SOIL TAXON -
PM MTAL LANDFORM ACTE PLOT POS WVTE SLP SHAPE - ASP 0
SLOPE % 0 ELEVATION 4120 EROS POTENT - EROS TYPE -
HORIZON ANGLE (%): N - E - S - W - IFSLP - IFVAL -
SPFE -
GROUND COVER: - S+ - G+ - R+ - L+ - W+ - M+ - BV+ - O - = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width - Channel Entrench -
Surface Water - Ht. Abv. H2O - Dist. from H2O -

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

PltIDL 3

PLOT NO. 92R0062 NO. SPECIES — PNC JUNSLG/CORSTO

TREES Tot Cv — Mht —
Tal Cv — Med Cv —
Low Cv — Grd Cv — CC

T 1 POPTRI 20
T 2 JUNSLG 20
T 3 SALBOO 10
T 4 SMLEXI 3
T 5 — —

SHRBS Tot Cv — Mht —
Tal Cv — Med Cv —
Low Cv — Grd Cv — CC

S 1 CORSTO 20
S 2 SMALB 70
S 3 ROSWOO 10
S 4 — —
S 5 — —
S 6 — —
S 7 — —
S 8 — —
S 9 — —
S10 — —
S11 — —
S12 — —

GRAM Tot Cv — Mht —
Med Cv — Low Cv —
Grd Cv — CC

G 1 AGRSTO 60
G 2 — —
G 3 — —
G 4 — —
G 5 — —
G 6 — —
G 7 — —
G 8 — —
G 9 — —
G10 — —
G11 — —
G12 — —

FRBS Tot Cv — Mht —
Med Cv — Low Cv —
Grd Cv — CC

F 1 — —
F 2 — —
F 3 — —
F 4 — —
F 5 — —
F 6 — —
F 7 — —
F 8 — —
F 9 — —
F10 — —
F11 — —
F12 — —
F13 — —
F14 — —
F15 — —

FERN Tot Cv 0 Mht — Med Cv —
Low Cv — Grd Cv —
BRYO/LICH Tot Cv 10

COMMENTS (EODATA) --> —

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

MANUAL 918 UNITS ✓ft m
PLOT NO. 92RD062 MO 8 DAY 20 YEAR 92 EOCODE *
EXAMINER(S) R. DeVelice, S. Chadde
PNC JUNSCO/CORSTO CT POPTRI/CORSTO
SITE Wallace Ranch STATE MT COUNTY POWE
PURP T PREC M QUADNAME Griffin Creek QUADCODE 4611258
10N T/11W R/29S/NE 4S/NE 4/4 COMMUNITY SIZE (acres)
PLOT TYPES C PLTRL variable PLOT W SURVEY ANL
PHOTOS None
DIRECTIONS --> -

CONSERVATION RANKING

COND - Com:
VIAB - Com:
DEFN - Com:
RANK C Com: cow use has been mod → heavy and cow
piles are present
MGMT: -
PROT: -

ENVIRONMENTAL FEATURES

DL B SOIL RPT -
SOIL UNIT - SOIL TAXON -
PM MIAL LANDFORM ACTE PLOT POS WVTE SLP SHAPE - ASP 0
SLOPE % 0 ELEVATION 4120 EROS POTENT - EROS TYPE -
HORIZON ANGLE (%): N - E - S - W - IFSLP - IFVAL -
SPFE -
GROUND COVER: - S+ - G+ - R+ - L+ - W+ - M+ - BV+ - O - = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width - Channel Entrench -
Surface Water - Ht. Abv. H20 - Dist. from H20 -

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)